

Section I. (Amendments to the Claims)

Please cancel claims 1-16, 18-24, 30, 31 and 57-65, as set out in the following listing of claims 1-66 of the application.

1. (cancelled)
2. (cancelled)
3. (cancelled)
4. (cancelled)
5. (cancelled)
6. (cancelled)
7. (cancelled)
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12. (cancelled)
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18. (cancelled)
19. (cancelled)
20. (cancelled)
21. (cancelled)
22. (cancelled)

23. (cancelled)
24. (cancelled)
25. (cancelled)
26. (cancelled)
27. (cancelled)
28. (cancelled)
29. (cancelled)
30. (cancelled)
31. (cancelled)
32. (Previously presented) A storage and dispensing system for storage and dispensing of liquid, comprising:

a portable container arranged for holding liquid and including a container opening;

a cap securable to the container opening and including a radio frequency identification tag in the cap, the cap (i) being arranged when secured to the container opening to seal the container for containment of liquid therein, (ii) including a rupturable membrane therein, and (iii) being engageable with a connector including a connector head and probe extending therefrom, wherein the probe is insertable through the rupturable membrane into the container, and wherein the probe has a liquid flow passage therethrough;

a connector including a connector head and a probe extending therefrom, wherein the probe has a liquid flow passage therethrough, and the connector is arranged for flow of liquid from the container through the probe to a location exterior of the container when pumping action is applied to the connector;

the connector head including an antenna arranged to communicate (i) with the radio frequency identification tag in the cap when the connector head is engaged with the cap, and (ii) with a controller arranged to control the pumping action in accordance with information

contained in said radio frequency identification tag in said cap, and communicated by the antenna to the controller.

33. (Previously presented) The storage and dispensing system of claim 32, wherein the cap when engaged with the connector head places the antenna in contact with the radio frequency identification tag.

34. (Previously presented) The storage and dispensing system of claim 32, wherein the cap includes a central probe hole having the rupturable membrane associated therewith, so that the probe can be inserted through the probe hole and rupture the rupturable membrane when the cap is engaged with the connector.

35. (Previously presented) The storage and dispensing system of claim 32, wherein the antenna and the radio frequency identification tag in the cap are separated by a distance of less than 10 millimeters, when the connector is engaged with the cap.

36. (Previously presented) The storage and dispensing system of claim 32, further comprising liquid in said container.

37. (Previously presented) The storage and dispensing system of claim 36, wherein said liquid comprises a liquid material selected from the group consisting of acids, solvents, bases, photoresists, dopants, inorganic solutions, organic solutions, biological solutions, pharmaceuticals and radioactive chemicals.

38. (Previously presented) The storage and dispensing system of claim 36, wherein the liquid comprises photoresist material.

39. (Previously presented) The storage and dispensing system of claim 32, wherein the antenna comprises a radio frequency antenna.

40. (Previously presented) The storage and dispensing system of claim 32, wherein the cap is threadably connected to the container opening.

41. (Previously presented) The storage and dispensing system of claim 32, wherein the cap is snapably secured to the container opening.

42. (Previously presented) The storage and dispensing system of claim 32, wherein the cap is vacuum sealed onto the container opening.

43. (Previously presented) The storage and dispensing system of claim 32, further comprising a controller arranged to control the pumping action in accordance with information contained in the radio frequency identification tag in the cap, and communicated by the antenna to the controller.

44. (Previously presented) The storage and dispensing system of claim 43, wherein the controller includes a read/write device.

45. (Previously presented) The storage and dispensing system of claim 44, wherein the read/write device includes a second antenna.

46. (Previously presented) The storage and dispensing system of claim 45, wherein the second antenna comprises a modular antenna line interconnecting the read/write device and the antenna of the connector head.

47. (Previously presented) The storage and dispensing system of claim 45, wherein the second antenna comprises a radio frequency antenna.

48. (Previously presented) The storage and dispensing system of claim 47, wherein the radio frequency second antenna of the read/write device is separated from the connector head antenna by a distance of less than 5 meters.

49. (Previously presented) The storage and dispensing system of claim 43, wherein the controller comprises a user interface including a touch screen for operator input to said controller.

50. (Previously presented) The storage and dispensing system of claim 49, wherein the touch screen is arranged for operator input of information including at least one information input selected from the group consisting of:

- installation time of the container;
- shelf life of liquid in the container;
- process utilization of the liquid in the container;
- when the liquid in the container is used; and
- how much of the liquid in the container is used.

51. (Previously presented) The storage and dispensing system of claim 43, wherein the controller is arranged to generate a visual output indicative of matching of liquid in the container to a liquid requirement of a liquid-using process.

52. (Previously presented) The storage and dispensing system of claim 51, wherein the controller is arranged to generate a visual output indicative of a mismatch of liquid in the container to a liquid requirement of a liquid-using process.

53. (Previously presented) The storage and dispensing system of claim 43, wherein the controller is arranged to generate (i) a first visual output indicative of matching of liquid in the container to a liquid requirement of a liquid-using process, and (ii) a second visual output indicative of a mismatch of liquid in the container to a liquid requirement of a liquid-using process, wherein the matching or mismatch are indicated by differently colored first and second visual outputs.

54. (Previously presented) The storage and dispensing system of claim 53, wherein the first visual output includes a green colored output display and the second visual output includes a red colored output display.

55. (Previously presented) The storage and dispensing system of claim 43, further comprising a pump operatively coupled to the controller to apply said pumping action to the connector, wherein the controller is arranged to modulate said pumping action of the pump in response to information inputted to the controller including at least one information input selected from the group consisting of (i) information contained in the radio frequency identification tag in the cap of the container; (ii) information inputted by an operator to the controller; and (iii) information inputted to the controller from a liquid-using process to which liquid from the container can be dispensed.

56. (Previously presented) The storage and dispensing system of claim 32, wherein the system further comprises a pump operatively coupled to the probe for pumping liquid from the container through the flow passage of the probe and out of the container.

57. (cancelled)

58. (cancelled)

59. (cancelled)

60. (cancelled)

61. (cancelled)

62. (cancelled)

63. (cancelled)

64. (cancelled)

65. (cancelled)

66. (Previously presented) A liquid storage and dispensing system, comprising:

a cylindrical vessel having a top opening;

a cap matably engaged with the top opening of the vessel, the cap including an RFID tag on a peripheral portion of the cap, and a central opening in the cap through which a liquid dispensing tube of a connector head may be inserted to place the liquid dispensing tube in contact with liquid in the vessel;

a rupturable membrane closing the opening in the cap, the rupturable membrane being rupturable when the liquid dispensing tube is inserted through the opening to place the liquid dispensing tube in contact with liquid in the vessel;

an integrated circuit manufacturing liquid in the vessel;

a connector including a liquid dispensing tube and a connector main body to which the liquid dispensing tube is connected, the connector main body having an antenna therein which is placed

into information transmission relationship with the RFID tag when the liquid dispensing tube is inserted through the rupturable membrane and the connector main body is engaged with the cap, whereby information from the RFID tag can be transmitted by the antenna to a signal processor by a wire or wireless connection.